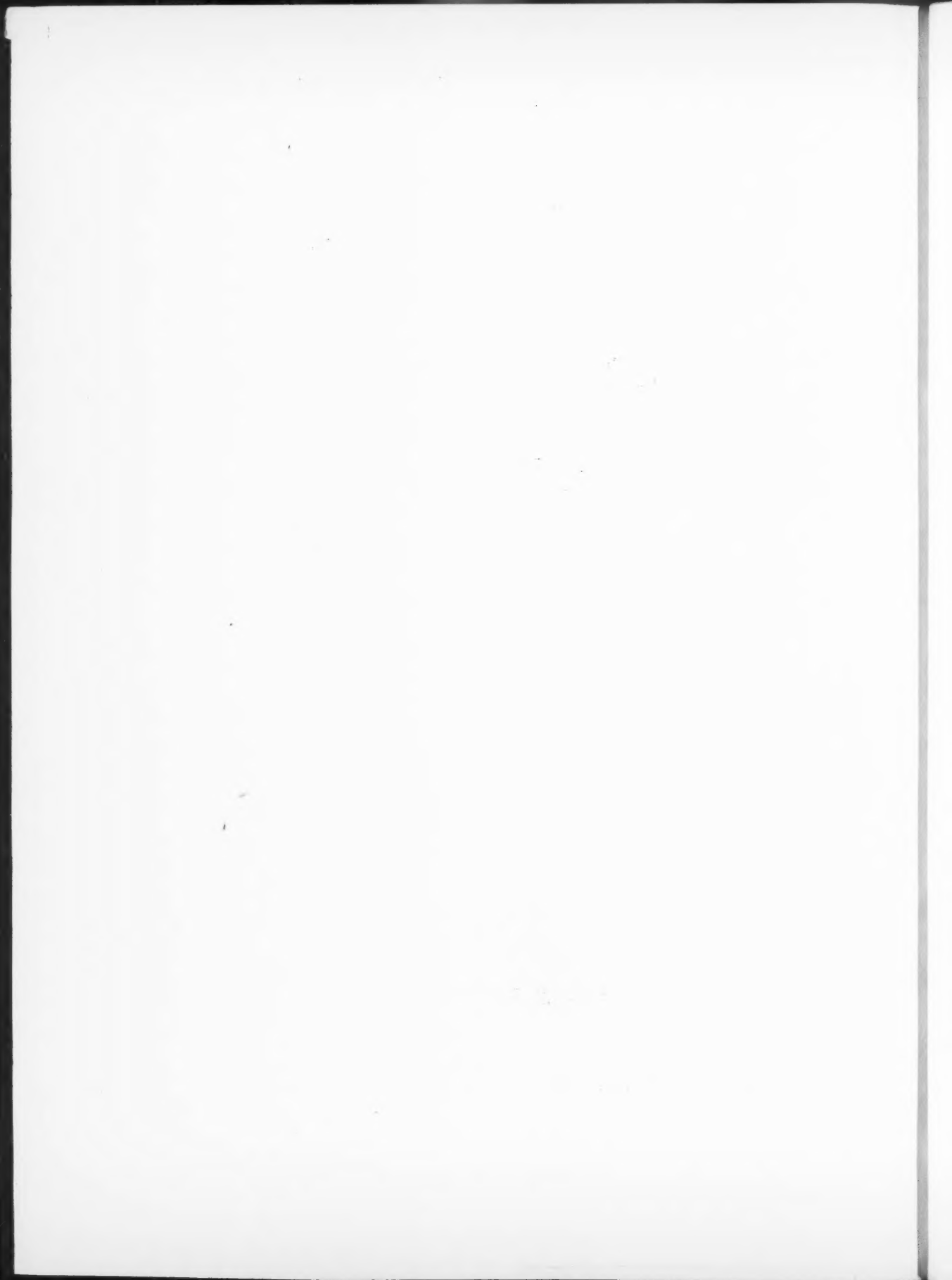


INDEX
TO
ARTICLES IN "ASTRONAUTICS"

No. 1 - No. 60

PUBLICATION OF THE
AMERICAN ROCKET SOCIETY



American Rocket Society
130 West 42nd Street
New York 18, N. Y.

INDEX TO ARTICLES IN "ASTRONAUTICS"

THEORY AND MATHEMATICS

The Mechanics of Rocket Flight-L. E. Manning No. 5
Ballistics of the Rocket-F. Pratt No. 6
Leaves From a Rocketeer's Notebook-G. E. Pendray No. 25
The Theory of Rocket Operation-J. Shesta No. 30
Memorandum on the Mechanics of Rocket Flight-
-W. Ley & G. E. Pendray No. 31
The Velocity-Ratio Efficiency-A. Africano No. 32
Empirical Rocket Design Formulas-A. Africano No. 34
The Laws of Rocket Motion-R. A. Goodpasture No. 34
Simplified Expression for Jet Reaction-R. Uddenberg No. 34
Fundamental Equations of Rocket Motion-
J. H. Wyld Nos. 35 & 36
Concerning Velocity-Ratio Efficiency-R. Uddenberg No. 36
Rocket Motor Efficiency-A. Africano No. 37
Thermal Efficiency Overemphasized?-J. Shesta No. 44
Tank Pressures and Motor Efficiency-C. Giles No. 48
Rocket Queries-C. Giles No. 54
Test Stand Fundamental Formulas-C. Giles No. 58

MOTORS AND ACCESSORIES

Construction of a Rocket Vehicle-C. Fitch No. 7
The Rocket Motor-P. van Dresser No. 33
The Problem of Rocket Fuel Feed-J. H. Wyld No. 34
The Rocket Combustion Motor-E. Sanger No. 35 (Translation)
Greenwood Lake Motor-N. Carver No. 38
The Motor Takes the Spotlight-L. Manning No. 40
Gas, Air, Water-R. C. Truax No. 40
Fuel as Coolant-J. H. Wyld No. 40
Outside Nozzle Reaction-C. Giles No. 45
Professor Yellott on Nozzle Design-J. R. Glazebrook No. 46
Latest Goddard Motor (Patent No. 2,217,649) - No. 47
Centrifugal Feed Pump-L. Goodman No. 47
Quick Pressure Generator-N. Carver No. 47
Problems of the Reaction Engine-A. Ananoff No. 48
The Nozzle-less Motor-C. Giles No. 49
Internal Combustion & The Rocket Motor-R. Healy No. 50
The Africano Motor-A. Africano No. 50
German Patents Rocket Motor-R. Healy No. 50
A Modified Rocket Engine-C. T. Piecowicz No. 53
Valier Motor-R. Healy No. 54
Combination Centrifugal Fuel Feed-K. Buchanan No. 54
Semi-Rocket Airfoil-C. T. Piecowicz & G. A. Kindsvogel No. 54
Fairey Jet Propulsion System-C. Giles No. 55
Motor Actuated Fuel Feeds-C. Giles No. 56
Spear Shaped Weather Rocket-C. P. Lent No. 57
Electronic Spacial Rocket-R. L. Sternberg No. 57
Thrust Augmentors for Rockets-C. Giles No. 58
The Athodyd-C. Giles No. 60

EXPERIMENTAL --- Reports, Plans, News

The German Rockets-G. E. Pendray No. 9
German Repulsor Makes 1 1/2 Kilometer Vertical Flight-No. 11
Preliminary Rocket Experiments Outlined-No. 12
Recent Worldwide Advances in Rocketry-G. E. Pendray No. 14
Conquest of Space by Rocket-G. E. Pendray No. 17
Increasing the Range of the Rocket-H. W. Bull No. 21
History of the First A.I.S. Rocket-G. E. Pendray No. 24
Report on the Liquid Fuel Rocket HW2-German Rocket Soc. No. 25
Flight of Experimental Rocket #2-G. E. Pendray No. 26
Three New Rockets Being Built-No. 27
Society's New Rockets Near Completion-No. 28
Rocket Experiments of 1934-No. 29
Flight of Rocket #4-G. E. Pendray No. 30
Shot Report on Rocket #4-Shesta & others No. 30
Test Report on Rocket #3-Smith & others No. 30
Report on Rocket Tests of 4/21/35-J. Shesta No. 31
Report of Motor Tests of 6/2/35-J. Shesta No. 31
The Proving Stand in Action-No. 31
The Cleveland Rocket Society-E. Loebell No. 32
The Story of European Rocketry-W. Ley No. 32
News of Rocketry-No. 33
Report on Rocket Motor Tests of 8/25/35-A. Africano No. 33
Rocket Motor Tests of 10/20/35-A. Africano No. 34
Optical Determination of Jet Velocity-No. 35
Aerodynamic Principles of the Greenwood Lake Plane-
-A. Klemm No. 36
Tubular Motors-H. F. Pierce No. 37
"Spear" Rocket-C. P. Lent No. 37
Rocket Tests at Pawling -G. E. Pendray No. 38
Report on Model Flight Tests of 9/12/37-A. Africano No. 38
A.R.S. #2 Proving Stand for Motors-J. Shesta No. 40
A "Housebroken" Demonstration Rocket-J. Shesta No. 40
Rocketry in California-F. J. Malina No. 41
Dry Fuel Experiences-P. vanDresser No. 41
Report on the 1938 Rocket Motor Tests-
-Shesta, Pierce & Wyld No. 42
Annapolis Motor Tests-R. C. Truax No. 42
New Experimental Program-No. 43
Experiments with Powder Motors-
-J. W. Parsons & E. S. Forman No. 43
New Model Stability Tests at Mountainville-A. Africano No. 44
Powder Flight Tests of 11/19/39-J. Shesta No. 45
Cuban Mail Rockets-T. Terry No. 45
Rocketry in France-A. Ananoff No. 47
Experiments in Outside Burning-W. T. Heyer No. 47
Liquid Cooling for Rocket Motors-B. Smith No. 47
Report on Motor Tests of 6/8/41-J. Shesta & R. Healy No. 49
Report on Flame and Sound-C. Giles & J. J. Pesqueira No. 49
Report on Motor Tests of 6/22/41-R. Healy & J. Shesta No. 50
Wyld Motor Retested-R. Healy No. 50
Intermittant Jet Motor-D. T. Dobbins No. 50
Thrust of Powder Rocket Charges-R. Healy No. 51
Powder Rocket Tests of the C. R. S.-R. Gordon No. 51
California Rocket Society Tests-R. Gordon No. 56
Rocket Experiments in Manchester-E. Burgess No. 59

FUELS

Rocket Fuels-W. Lemkin No. 6
Rocket Fuels and Their Possibilities-W. Lemkin No. 16
The Why of Liquid Propellants for Rockets-W. Ley No. 22
Liquid Oxygen-J. Kraus No. 24
A Survey of Rocket Fuels-H. W. Bull No. 29
Rocket Fuels-J. Shesta No. 33
The Build-up Pressure of Enclosed Liquid Oxygen-
-A. Africano No. 36
Handling Liquid Oxygen-H. F. Pierce No. 38
Rocket Power from Atoms-G. E. Pendray No. 45
The Black Powder Rocket Charge-R. Healy No. 53

MATERIALS AND CONSTRUCTION

The Best Metals for Rockets-B. Smith No. 29
Materials for Rocket Construction-B. Smith Nos. 31 & 32
Construction of Tanks-J. Shesta No. 39
Rocket Valves-H. F. Pierce No. 41
Model Rockets, How to Build Them-R. Healy No. 44
Plastic Rocket Shells (Models)-G. C. Putman No. 49
"Lucite" Fuel Tanks-C. T. Piecowicz No. 50

LANDING DEVICES

Landing Gear Releases-J. Shesta No. 40
Parachutes for Rockets-R. Healy No. 41

INSTRUMENTS AND RADIO CONTROL

An Altitude Instrument-S. P. Fergusson No. 38
An Electrical Weather Instrument-N. Carver No. 39
Weather Instruments-N. Carver No. 41
New Recording Rocket Range Finder-
-H. F. Pierce & J. Shesta No. 43
Following the Rocket in Flight-J. Shesta No. 46
Ingenious Radio Control System-L. Lawrence, Jr. No. 46
Another Radio Control-N. Carver No. 49
Timing and Ignition Control-L. Lawrence, Jr. No. 50

AEROLOGICAL ROCKETS

The Experimental Atmospheric Rocket-L. C. Lee No. 8
Exploring the Stratosphere-J. E. Woodman No. 20
Previewing the Aerological Rocket-P. van Dresser No. 36
Specifications for a Weather Rocket-G. E. Pendray No. 38
"Cosmecology" and the Rocket-P. van Dresser No. 39
Experimental Rocket-Model 1939-J. H. Wyld No. 42

ROCKET WEAPONS

The Rocket and the Next War-D. Lasser No. 13
3" Rocket Projectile for Aircraft-A. Africano No. 46
Aerial Cannon and Rocket Shells-R. Healy No. 48
Rockets for Defense-E. F. Chandler No. 51
Winged Rocket Bombs-Z. Krzywoblocki No. 51
Wire-Tailed "Snare" Rockets-R. Healy No. 54
Two New Rocket Weapons-C. Giles No. 55
Nazi Rocket Weapons-R. Healy No. 56
Bazooka Details-C. Giles & R. Healy No. 56
Russian Rocket Bomb-R. Healy No. 56
The Nazi Rocket Threat-R. Healy No. 57
Hs 293 Rocket Glider Bomb-R. Healy No. 57
Germany's Robot Bombs-C. Giles No. 58
Plane Rockets-C. Giles No. 58
Radio-Controlled Rocket Bomb-C. Giles No. 58
Airborne Rocket Projectiles-C. Giles No. 59
The V-1 Robot Bomb-C. Giles No. 59
The Nazi V-Weapons-C. Giles No. 60
Rocket Firing Biplanes-C. Giles No. 60

JET POWER FOR AIRCRAFT

Across the Atlantic in a Rocket Plane-H. A. Danne No. 10
Latest Rocket Planes for the Stratosphere-
-N. Deisch No. 21 (Reprint)
Rocket Effect in Standard Airplane Performance-No. 36
British Fly Rocket Plane-J. R. Glazebrook No. 44
Jet Propulsion for Airplane Take-off-R. Healy No. 45
Thermal-Air Jet-Propulsion-Gohlke No. 52
Engine Exhaust Propulsion-C. Giles No. 53
Jet Propelled Helicopters-C. Giles No. 55
Jet Propelled Dirigible-C. P. Lent No. 56
Anglo-American Thermal Jet Plane-R. Healy No. 57
Rocket Power for Gliders-C. Giles No. 57
American and British Jet Planes-C. Giles No. 60
Rockets and Pseudo Rockets-L. Manning No. 60
Jet Assisted Take-off-C. Giles No. 60

ACCELERATION AND GRAVITATION

Physiological Implications of Rocket Flight-T.W. Norton No. 9
A Theory of Gravitation and Planetary Evolution-
-A. J. Powers No. 18
Man's Ability to Withstand High Accelerations Studied-No. 20
The Physiology of Acceleration-T.W. Norton & L.E. Manning No. 21
Free Fall and the Human Organism-No. 35
A New Theory of Gravitation-N. Caver No. 46

INTERPLANETARY FLIGHT

The Universal Background of Interplanetary Travel-
-F. Pratt No. 1
Getting Away From the Earth-L. Manning No. 2
Can Man Exist in Outer Space?-C. P. Mason No. 2
Navigation in Interplanetary Space-C. W. Van Devander No. 2
Can Human Life Exist on Other Planets?-N. Schachner No. 3
Interplanetary Communication-C. J. Fitch No. 4
The Problem of Landing the Space Ship-L. Manning No. 4
Interplanetary Flight-R. E. Pelterie No. 7
Equipment for an Interplanetary Expedition-N. Schachner No. 8
Utilization of the Rocket-A. L. Fierst No. 8
The Navigation of Space-N. Deisch No. 11
External Aids to Rocket Flight-L. Manning No. 13
Can Man Exist on Other Planets?-N. Schachner No. 15
The Principles of Interplanetary Navigation-C.P. Mason No. 16
The Control of Rocket Vehicles-H. H. Sheldon No. 19
Artificial Gravity for the Space Ship-N. Deisch No. 23
Rocket Trips into Space-A. Africano No. 40

HISTORY AND BIOGRAPHY

Definition and History of the Rocket-G. E. Pendray No. 5
On Rockets and Their History-W. Ley No. 22
Chronological History of the Rocket-W. Ley Nos. 22 & 23
The History of the REP-Hirsch Award-No. 34
Rocketry's No. 1 Man (Dr. Goddard)-G. E. Pendray No. 37
Lindberg on Rockets-No. 37
Pictorial Highlights of Rocketry-G. E. Pendray No. 39
Rocket Demonstration at New York World's Fair-No. 43
Hydraulic Jet Propulsion-C. Giles No. 54
Patrick Cunningham-J. Mater No. 58
James Rumsey-C. Giles No. 59
American Rocket Society-No. 60

BIBLIOGRAPHY AND PATENTS

The Nomenclature of Rocketry-N. Deisch No. 32
Recent Rocket Patents-G. E. Pendray No. 41
Edwin Pynchon's Albatross-R. Healy No. 47
American Rocket Patents-C. Giles No. 53
Rocket Articles of 1942-C. Giles No. 54
More Rocket Patents-C. Giles No. 54
Jet Propulsion Classifications-C. Giles No. 54
United States Rocket Patents-C. Giles No. 59
The Rocket Societies-C. Giles No. 60
British Patent Specifications-C. Giles No. 60

ASTRONAUTICS

Journal of the American Rocket Society

<u>1930</u>	<u>1931</u>	<u>1932</u>	<u>1933</u>
No.	No.	No.	No.
1 June	6 Jan.	15 Jan.	25 Jan.
2 July	7 Feb.	16 Feb.	26 May
3 Sept.	8 Mar.-April	17 Mar.	27 Oct.
4 Oct.	9 May	18 April	
5 Nov.-Dec.	10 June-July	19 May	
	11 Aug.	20 June	
	12 Sept.	21 July	
	13 Nov.	22 Aug.-Sept.	
	14 Dec.	23 Oct.	
		24 Nov.-Dec.	
<u>1934</u>	<u>1935</u>	<u>1936</u>	<u>1937</u>
28 Mar.	31 June	33 Mar.	36 Mar.
29 Sept.	32 Oct.	34 June	37 July
30 Oct.-Nov.		35 Oct.	38 Oct.
<u>1938</u>	<u>1939</u>	<u>1940</u>	<u>1941</u>
39 Jan.	42 Feb.	45 April	48 May
40 April	43 Aug.	46 July	49 Aug.
41 July	44 Nov.	47 Nov.	50 Oct.
			51 Dec.
<u>1942</u>	<u>1943</u>	<u>1944</u>	
52 May	54 Feb.	57 Mar.	
53 Oct.	55 July	58 June	
	56 Dec.	59 Sept.	
		60 Dec.	

NOTE: Nos. 1 to 18 inclusive were "Bulletin of the American Interplanetary Society"; No. 19 was the first "Astronautics".

EDITORS:

Nos. 1 to 7, C. W. Van Devander; Nos. 8 to 18, Clyde J. Fitch; Nos. 19 to 25, David Lasser; Nos. 26 to 31, Laurence Manning; Nos. 32 to 36, Peter van Dresser; Nos. 37 to 41, G. E. Pendray; No. 42, James H. Wyld; Nos. 43 to 58, Roy Healy; Nos. 59 to 60, Cedric Giles.

PRICES: Single copies \$1.00

Complete Set Nos. 1 to 60 - \$60. less 10%.

